# Dual SIM Selection

The Telit modules can already support more than one SIM card, in the following Figure 5-1 is showed a schematic example of a dual SIM connection:

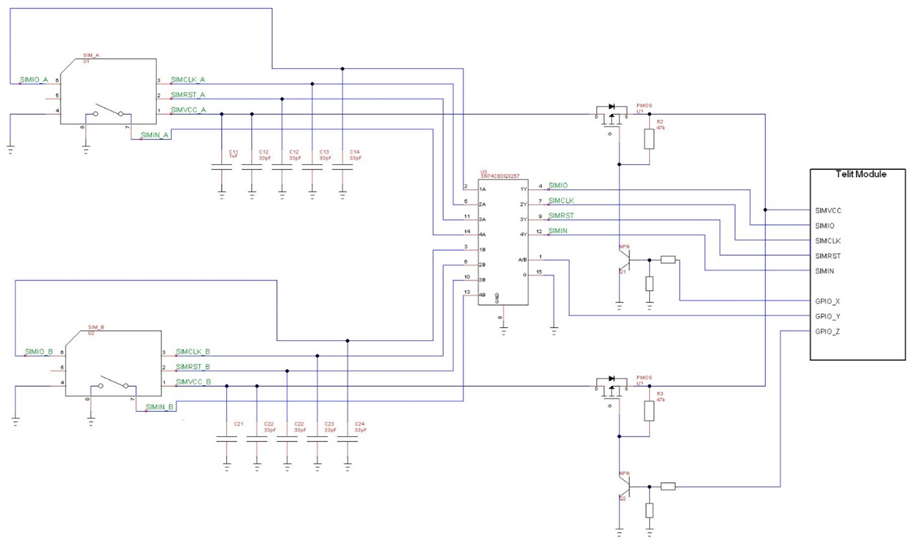


Figure 5‑1 Dual SIM

SIM A is enabled using this AT command sequence:

* AT#GPIO=X,1,1
* AT#GPIO=Z,0,1
* AT#GPIO=Y,0,1
* AT#SIMDET=0 (5 seconds of pause)
* AT#SIMDET=2

SIM B is enabled using this AT command sequence:

* AT#GPIO=X,0,1
* AT#GPIO=Z,1,1
* AT#GPIO=Y,1,1
* AT#SIMDET=0 (5 seconds of pause)
* AT#SIMDET=2

If the user doesn't need SIM hot removal he can ground the SIMIN pin on the module side, in this case, the AT command sequence changes a bit because AT#SIMDET has to be set to 1 and not to 2:

SIM A is enabled using this AT command sequence:

* AT#GPIO=X,0,1
* AT#GPIO=Z,1,1
* AT#GPIO=Y,0,1
* AT#SIMDET=0
* (5 seconds of pause)
* AT#SIMDET=1

SIM B is enabled using this AT command sequence:

* AT#GPIO=X,1,1
* AT#GPIO=Z,0,1
* AT#GPIO=Y,1,1
* AT#SIMDET=0 (5 seconds of pause)
* AT#SIMDET=1

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| C:\Users\elenape\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\E1800DB4.tmp | **Note/Tip:** The P-Channel MOSFETS should have a Ron typical around 0.5Ω and must never exceed 1Ω. |

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| C:\Users\elenape\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\E1800DB4.tmp | **Note/Tip:** On xL865 and xE866 families there is no dedicated SIMIN pin and AT#SIMDET=1 is the default value. To use the configuration shown in Figure 5-1 the SIMIN pin has to be configured with: AT#SIMINCFG=<GPIO\_pin> (stored in NVM) and AT#SIMDET=2 (stored in the extended profile AT&P).  Be careful because, in some products, not all GPIOs can be configured for the SIMIN function; you can find the suitable GPIOs in the Hardware User Guide of the single devices or their Global Form Factor application note. |

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| C:\Users\elenape\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\E1800DB4.tmp | **Note/Tip:** On GL865-QUAD V4 and GE310-GNSS in the Dual SIM Selection circuit shown here, the switch IC must be controlled by an external processor, and the module shall be rebooted after SIM switching. |

It’s also possible to use a dedicated IC switch with a low Ron channel for SIMVCC such as FSA2567:

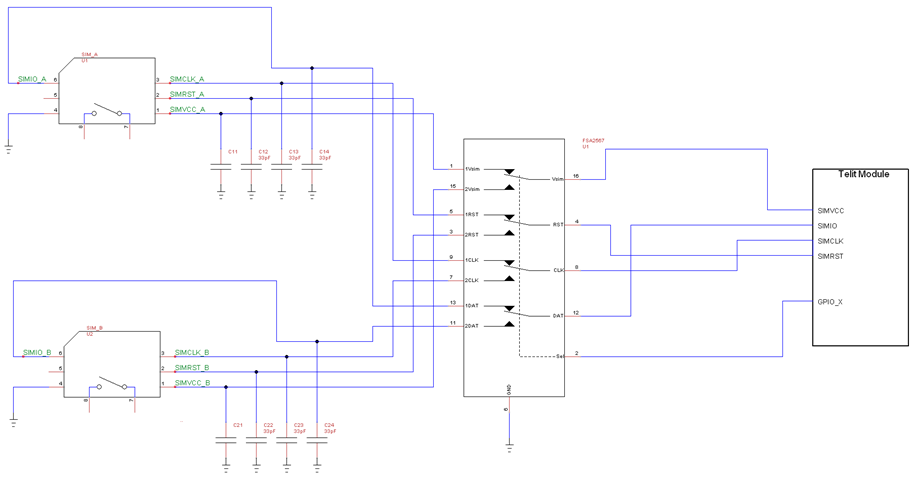


Figure 5‑2 switches with a low Ron channel for SIMVCC

SIM A is enabled using this AT command sequence:

* AT#GPIO=X,0,1
* AT#SIMDET=0 (5 seconds of pause)
* AT#SIMDET=1

SIM B is enabled using this AT command sequence:

* AT#GPIO=X,1,1
* AT#SIMDET=0 (5 seconds of pause)
* AT#SIMDET=1

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| * C:\Users\elenape\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\E1800DB4.tmp | **Note/Tip:** On xL865 and xE866 families there is no dedicated SIMIN pin and AT#SIMDET=1 is the default value. To use the configuration shown in Figure 5-1 the SIMIN pin has to be configured with: AT#SIMINCFG=<GPIO\_pin> (stored in NVM) and AT#SIMDET=2 (stored in the extended profile AT&P).  Be careful because, in some products, not all GPIOs can be configured for the SIMIN function; you can find the suitable GPIOs in the Hardware User Guide of the single devices or their Global Form Factor application note. |

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| C:\Users\elenape\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\E1800DB4.tmp | **Note/Tip:** On GL865-QUAD V4 and GE310-GNSS in the Dual SIM Selection circuit shown here, the switch IC must be controlled by an external processor, and the module shall be rebooted after SIM switching. |